SEQ. ID 3-1 SEQ. ID 4-1	GAAAAGGTGGACAAGTCCTATTTTCAAGAGAAGATGACTTTTAACAGTTTTGAAGGATCT 60 M T F N S F E G S 9	
61 10	AAAACTTGTGTACCTGCAGACATCAATAAGGAAGAAGAATTTGTAGAAGAGTTTAATAGA 120 K T C V P A D I N K E E E F V E E F N R 29	
121 30	TTAAAAACTTTTGCTAATTTTCCAAGTGGTAGTCCTGTTTCAGCATCAACACTGGCACGA 180 L K T F A N F P S G S P V S A S T L A R 49	
181 50	GCAGGGTTTCTTTATACTGGTGAAGGAGATACCGTGCGGTGCTTTAGTTGTCATGCAGCT 240 A G F L Y T G E G D T V R C F S C H A A 69	
241 70	GTAGATAGATGGCAATATGGAGACTCAGCAGTTGGAAGACACAGGAAAGTATCCCCAAAT 300 V D R W Q Y G D S A V G R H R K V S P N 89	
301 90	TGCAGATTTATCAACGGCTTTTATCTTGAAAATAGTGCCACGCAGTCTACAAATTCTGGT 360 C R F I N G F Y L E N S A T Q S T N S G 109	
361 110	ATCCAGAATGGTCAGTACAAAGTTGAAAACTATCTGGGAAGCAGAGATCATTTTGCCTTA 420 I Q N G Q Y K V E N Y L G S R D H F A L 129	
421 130	GACAGGCCATCTGAGACACATGCAGACTATCTTTTGAGAACTGGGCAGGTTGTAGATATA 480 D R P S E T H A D Y L L R T G Q V V D I 149	
481 150	TCAGACACCATATACCCGAGGAACCCTGCCATGTATAGTGAAGAAGCTAGATTAAAGTCC 540 s d t i y p r n p a m y s e e a r l k s 169	
541 170	TTTCAGAACTGGCCAGACTATGCTCACCTAACCCCAAGAGAGTTAGCAAGTGCTGGACTC 600 F Q N W P D Y A H L T P R E L A S A G L 189	
601 190	TACTACACAGGTATTGGTGACCAAGTGCAGTGCTTTTGTTGTGGTGGAAAACTGAAAAAT 660 YYTGIGDQVQCFCCGGKLKN 209	
661 210		
721 230		
781 250		
841 270		
901 290	YALGEGDKVKCFHCGGGLTD 309 2.3	
961 310		0
	1 CTGTTAGAACAGAAGGGACAAGAATATATAAACAATATTCATTTAACTCATTCACTTGAG 108 LLEQKGQEYINNIHLTHSLE 349	

Fig. 1

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			3	4													4	4_!)		
1081	GA	GTG	TCT	GGT.	AAG	AAC	TAC	TGA	TAA:	AAC	ACC	ATC	ACT:	AAC'	rag:	AAG	יד ב	rda'	TGA'	TACC	1140
350		C	L	/	R	T	T	E	K		P		L		R	R	I	Ď	D	m	369
220	D	L	ŢI	٧	К	Ţ	T	D	v	Ţ	r	Ð	ш	1	V.	r	7	ע	ע	1	303
1141	AT	CTT	CCA	AAA'	TCC'	TAT(GGT	ACA.	AGA.	agc'	TAT.	ACG.	AAT	GGG	GTT(CAG:	rtt(CAA	GGA(CATT	1200
370	I	F	0	N	P	M	V	0	E	A	I	R	M	G	F	S	F	K	D	I	389
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1001		~~ ~	3 3 m	3 3 m	001			3 3 mi	nas.	a m	a mai	maa	a 2 a	O3 3	Om 3.1	T 3 3 1	v ma	a cimi	ma a		1260
1201																					1260
390	K	K	I	M	E	E	K	Ι	Q	Ι	S	G	S	N	Y	K	S	L	E	V	409
1261	CT	CCT	ጥርር	ACA	ጥርጥ	ACT	יממה	יים	דרא	CAA	ACA	ሮልር፡	ጥልጥ	CCA	ACD'	TCA	ኋ ሞሮ	AAC	ጥሮል	CACT	1320
410	L		A				N										S	S	0	T	429
#T0	Ti	٧	A	ע	ננ	٧	14	A	V	v	ע	5	M	¥	ע	B	Ö	Ð	Ž	1	247
1321	TC.	ATT.	ACA	GAA	aga	GAT	TAG:	TAC'	rga	AGA	GCA	GCT.	AAG	GCG	CCT	GCA	AGA	GGA	GAA	GCTT	1380
430	S	L	0	K	E	I	S	T	E	E	0	L	R	R	L	0	E	E	K	L	449
	_	_	~			_	_	_	_		~					~				_	
1381	m/C	מ ג א	እአጥ	CID CI	ጥአጥ	יגיטט	ሞአ / '	·	יחי אים	The Colonia	ተአጥ	COD	الماليات	m Omi	ምረረ	THE CO	ייים	יגייג	ሞ/ግሞ	አረሞር	1440
			_		-																
450	C	K	I	C	M	D	R	N	I	A	I	٧	F	V	P	C	G	H	L	V	469
1441	AC	TTG	TAA	ACA	ATG	TGC	TGA	AGC:	AGT'	TGA	CAA	GTG'	TCC	CAT	GTG	CTA	CAC.	AGT	CAT'	TACT	1500
470	T	C	K	0	C	Δ	E	A	V	D	ĸ	C	P	M	C	Y	T	V	I	T	489
-, •	•	•		×	•	••	_	••	•	_		•	•		•	•	-	•	_	-	
1501	mm	(133	aa3		3 3 m	mmm	m a m	amai	ג וחיד	3 m/	T 3 3.	CEC	mam	3 Om	3.00	a a ma	amm	3 777	mm/li	mm/mm	1560
										WIC	TWW	CIC	IAI	AGI.	AGG	CAI	51 I.	HIG	116	TICT	
490	F	K	Q	K	I	F	M	S	*												497
1561	TA	TTA	CCC	TGA	TTG	AAT	GTG'	TGA'	TGT	GAA	CTG.	ACT'	TTA	AGT	AAT	CAG	GAT	TGA	ATT	CCAT	1620
1621		CCA	արար	CCT	ACC.	ZZG	TAG	CAA	ΔΔΔ	ΔΔΔ	ፐርጥ	ልሮል	ጥርር	CAG	ጥርጥ	بالباب	ACT	ፐርር	מבי	ፐልጥል	1680
1681																					
								-	-												
1741																					1800
1801																					1860
1861	TC	$\mathtt{T}\mathtt{T}\mathtt{T}$	TCA	GAT	AGG	CTT	AAC.	AAA'	TGG.	agc	TTT	CTG	TAT	ATA	AAT	GTG(gag	ATT	Aga	GTTA	1920
1921	AT	CTC	CCC	TAA	CAC	ATA	ATT	TGT'	TTT	GTG	TGA	AAA	AGG	AAT	AAA	TTG'	TTC	CAT	GCT	GGTG	1980
1981																					2040
2041																				TTTG	2100
2101																					
2161																					
2221	AA	GTA	TGI	ATG	TTT	TTA	ATA	TGC.	ATA	GAA	CAA	AAG	ATT	TGG	AAA	GAT.	ATA	CAC	CAA	ACTG	2280
2281	TT	AAA	TGT	GGT	TTC	TCT	TCG	GGG.	AGG	GGG	GGA	TTG	GGG	GAG	GGG	CCC	CAG	AGG	GGT	TTTA	2340
2341	ΨΔ	CCC	CCC	ידידיי	ጥሮል	777	יייטייי	ACT	ጥጥጥ	ጥጥር	ል ጥጥ	ጥጥር	ጥጥር	ጥርጥ	ፐርር	A A T'	Trip	ጥጥል	ጥልል	GTAT	2400
2401																					
																					2520
																					2580
2581	TG	TGG	ATG	AAA	AAT	TTA	'TCT	GAG	TGG	TAG	TTT	TTT	GAC	AGG	TAG	ACC	ATG	TCT	TAT	CTTG	2640
2641	TT	TCA	AAA	TAA	GTA	TTT	CTG	ATT	TTG	TAA	AAT	GAA	ATA	TAA	AAT	ATG	TCT	CAG	ATC	TTCC	2700
																					2760
2761																					2820
																					2880
2881	TA	TCA	TCI	TGT	'ATC	TTA	AAG	TTT	CAT	GTG	AGT	'TTT	TAC	CGT	TAG	GAT	GAT	TAA	GAT.	GTAT	2940
2941	ΑT	AGG	ACA	AAA	TGT	TAA	GTC	TTT	CCT	CTA	CCT	ACA	TTT	GTT	TTC	TTG	GCT	AGT	AAT	AGTA	3000
																					3060
2001	31	•••			···						- 1120			-470						~ 4 46 46 7	2444

Fig. 1 (cont.)

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3061 AATATTGGCAAGAAAAGAAGAATAGTTGTTTAAATATTTTTTAAAAAACACTTGAATAAG 3120
3121 AATCAGTAGGGTATAAACTAGAAGTTTAAAAATGCCTCATAGAACGTCCAGGGTTTACAT 3180
3181 TACAAGATTCTCACAACAACCCATTGTAGAGGTGAGTAAGGCATGTTACTACAGAGGAA 3240
3301 TTGTTATGTTCTCCTAACTTCTGTTGATTACTACTTTAAGTGATATTCATTTAAAACATT 3360
3421 CTGGAGTGCAGTGGAGTGATCTCTGCTCACTGCAACCTCCGCCTTCTGGGTTCAAGCGAT 3480
3541 ATTTTTTTTTTTTTTTTTAGTAGAGACGGGGTTTCACCATGTTGGCCAGGCTGGTATCAAAC 3600
3601 TCCTGACCTCAAGAGATCCACTCGCCTTGCCCTCCCAAAGTGCTGGGATTACAGGCTTGA 3660
3661 GCCACCACGCCCGGCTAAAACATTGCAAATTTAAATGAGAGTTTTAAAAAATTAAATAATG 3720
3721 ACTGCCCTGTTTCTGTTTTAGTATGTAAATCCTCAGTTCTTCACCTTTGCACTGTCTGCC 3780
3781 ACTTAGTTTGGTTATATAGTCATTAACTTGAATTTGGTCTGTATAGTCTAGACTTTAAAT 3840
3841 TTAAAGTTTTCTACAAGGGGAGAAAAGTGTTAAAATTTTTAAAATATGTTTTCCAGGACA
                                                       3900
3901 CTTCACTTCCAAGTCAGGTAGGTAGTTCAATCTAGTTGTTAGCCAAGGACTCAAGGACTG 3960
3961 AATTGTTTTAACATAAGGCTTTTCCTGTTCTGGGAGCCGCACTTCATTAAAATTCTTCTA 4020
4021 AAACTTGTATGTTTAGAGTTAAGCAAGACTTTTTTTCTTCCTCCATGAGTTGTGAAAT 4080
4081 TTAATGCACAACGCTGATGTGGCTAACAAGTTTATTTTAAGAATTGTTTAGAAATGCTGT 4140
4141 TGCTTCAGGTTCTTAAAATCACTCAGCACTCCAACTTCTAATCAAATTTTTGGAGACTTA 4200
4201 ACAGCATTTGTCTGTGTTTGAACTATAAAAAGCACCGGATCTTTTCCATCTAATTCCGCA 4260
4261 AAAATTGATCATTTGCAAAGTCAAAACTATAGCCATATCCAAATCTTTTCCCCCCTCCCAA 4320
4321 GAGTTCTCAGTGTCTACATGTAGACTATTCCTTTTCTGTATAAAGTTCACTCTAGGATTT 4380
4381 CAAGTCACCACTTATTTTACATTTTAGTCATGCAAAGATTCAAGTAGTTTTGCAATAAGT 4440
4441 ACTTATCTTTATTTGTAATAATTTAGTCTGCTGATCAAAAGCATTGTCTTAATTTTTGAG 4500
4561 TTTCCTGCTACATTTGGTTTTTTCCCCTGTCCCTTTGATTACGGGCTAAGGTAGGGTAAG 4620
4621 AXXGGGTGTAGTGAGTGTATATAATGTGATTTGGCCCTGTGTATTATGATATTTTGTTAT 4680
4681 TTTTGTTGTTATATTATTTACATTTCAGTAGTTGTTTTTTTGTGTTTTCCATTTTAGGGGAT 4740
4741 AAAATTTGTATTTTGAACTATGAATGGAGACTACCGCCCCAGCATTAGTTTCACATGATA 4800
4801 TACCCTTTAAACCCGAATCATTGTTTTATTTCCTGATTACACAGGTGTTGAATGGGGAAA 4860
4921 ATGAAATAAAATGGGGCTGGGCTCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGG 4980
4981 CTGAGGCAGGTGGATCACGAGGTCAGGAGATCGAGACCATCCTGGCTAACACGGTGAAAC 5040
5101 GCTACTCGGGAGGCTGAGGCAGGAGAATGGTGTGAACCCGGGAGGCAGAGCTTGCAGTGA 5160
5161 GCCGAGATCTCGCCACTGCACTCCAGCCTGGGCAACAGAGCAAGACTCTGTCTCAAAAAA 5220
 5221 AAAAAAAAAAAG 5232
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Fig. 1 (cont.)

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SEQ. ID 5-1 TTGCTCTGTCACCCAGTTTGGAGTGCAGTTATGCAGTCTCACACTGCAAGCTCTGCCTCA 60
     121 ACCATGTCTGGCTAATTTTTGAGTTTCTTTGTAGAGATGGTGTTTTGCCAAGTCACCCAG 180
    181 TTTGAGGCTGGTCTCAAACACCTGGGCTCAAGCAATCCATCTACCTCAGCCTCCCAAAGT 240
    241 GCTGGGATTACAGGAGTGAGCCATGGCATGAGGCCTTGTGGGGTGTCTCTTTTAAATGAA 300
    361 ATTATCCTATTTTTCTCAAAACATATGTCCTTTTTCTCTACTTTTCATTTTTGTTACTTT 420
     421 TGATGGACACATGTGTTACATTGATTTCACTTTCTCATAATTCTGCTGTAAGAAAAACAA 480
     481 TAGTGCCAGTTCAATGACAAATAGCAACAGTCTGTTATTGCTAGACTGTTACTGTTAGTG 540
     541 GAGACTACCAGAACAGTCAGTCCCAGTGTCAGGGAATCAAAGAGAACATGTTCCCTCTCT 600
     601 AAAGGGCACAGCTGCTCAGCTTTAGCTGATTGCTGCCCTGCAGGACTATAGGCCCAG 660
     661 TGTTGCTAGATCTTTTGATGTTTCAAGAGAAGCTTGGAATCTAGAATGTGATGGGAAGTC 720
     721 TCTTACATTTAAACATGTTGGCAATTAATGGTAAGATTTAAAAATACTGTGGTCCAAGAA 780
     781 AAAAATGGATTTGGAAACTGGATTAAATTCAAATGAGGCATGCAGATTAATCTACAGCAT 840
     841 GGTACAATGTGAATTTTCTGGTTTCTTTAATTGCACTGTAATTAGGTAAGATGTTAGCTT 900
     901 TGGGGAAGCTAAGTGCAGAGTATGCAGAAACTATTATTTTTTGTAAGTTTTCTCTAAGTAT 960
     961 AAATAAATTTCAAAATAAAAATAAAAACTTAGTAAAGAACTATAATGCAATTCTATGTAA 1020
    1021 GCCAAACATAATATGTCTTCCAGTTTGAAACCTCTGGGTTTTATTTTATTTTATTTTATT 1080
    1081 TTTGAGACAGAGTCTTGCTGTCACCCAGGCTGGAGTGTAGTGGCACTATTTCGGCCCA 1140
    1141 CTGCAACCTCCACCTCCCAGGCTCAAATGATTCTCCTGCCTCAGCCTCCGGAGTAGCTGG 1200
    1201 GATTACAGGCGCGTACCACCACCCAGCTAATTTTTGTATTTTAGTAGAGATGGGGTT 1260
    1261 TCACCATTTTGGCCAGGCTGGTTTTGAACTCCTGACCTCAAGTGATCCACTTGTCTTGGC 1320
    1321 CTCCCAAAATGCTGGGATTACAGGCGTGAGCCACTGCACCAGGCAGAGGCCTCTGTTTTT 1380
    1381 TATCTCTTTTTGGCCTCTACAGTGCCTAGTAAAGCACCTGATACATGGTAAACGATCAGT 1440
    1561 GAAAACGACTTCTTCTAGATTTTTTTTCAGTTTCTTCTATAAATCAAAACATCTCAAAA 1620
    1621 TGGAGACCTAAAATCCTTAAAGGGACTTAGTCTAATCTCGGGAGGTAGTTTTGTGCATGG 1680
    1681 GTAAACAAATTAAGTATTAACTGGTGTTTTACTATCCAAAGAATGCTAATTTTATAAACA 1740
    1741 TGATCGAGTTATATAAGGTATACCATAATGAGTTTGATTTTGAATTTGATTTGTGGAAAT 1800
    1801 AAAGGAAAAGTGATTCTAGCTGGGGCATATTGTTAAAGCATTTTTTTCAGAGTTGGCCAG 1860
    1861 GCAGTCTCCTACTGGCACATTCTCCCCATTATGTAGAATAGAAATAGTACCTGTGTTTGGG 1920
    1981 AATTAAAGAAACATGCAGATGAAAGTTTTGACACATTAAAATACTTCTACAGTGACAAAG 2040
    2041 AAAAATCAAGAACAAAGCTTTTTGATATGTGCAACAAATTTAGAGGAAGTAAAAAGATAA 2100
    2101 ATGTGATGATTGGTCAAGAAATTATCCAGTTATTTACAAGGCCACTGATATTTTAAACGT
    2161 CCAAAAGTTTGTTTAAATGGGCTGTTACCGCTGAGAATGATGAGGATGAGAATGATGGTT
                                                               2220
    2221 GAAGGTTACATTTTAGGAAATGAAGAAACTTAGAAAAATTAATATAAAGACAGTGATGAAT 2280
    2281 ACAAAGAAGATTTTTATAACAATGTGTAAAATTTTTGGCCAGGGAAAGGAATATTGAAGT 2340
    2341 TAGATACAATTACTTACCTTTGAGGGAAATAATTGTTGGTAATGAGATGTGATGTTTCTC 2400
    2401 CTGCCACCTGGAAACAAAGCATTGAAGTCTGCAGTTGAAAAGCCCCAACGTCTGTGAGATC 2460
    2521 TGACTTGCTTATTGGTCATTGCTAGTATTATCGACTCAGAACCTCTTTACTAATGGCTAG 2580
     2581 TAAATCATAATTGAGAAATTCTGAATTTTGACAAGGTCTCTGCTGTTGAAATGGTAAATT 2640
     2641 TATTATTTTTTTTTGTCATGATAAATTCTGGTTCAAGGTATGCTATCCATGAAATAATTTC 2700
     2701 TGACCAAAACTAAATTGATGCAATTTGATTATCCATCTTAGCCTACAGATGGCATCTGGT 2760
     2761 AACTTTTGACTGTTTTAAAAATAAATCCACTATCAGAGTAGATTTGATGTTGGCTTCAG 2820
     2821 AAACATTTAGAAAAACAAAAGTTCAAAAATGTTTTCAGGAGGTGATAAGTTGAATAACTC 2880
     2881 TACAATGTTAGTTCTTTGAGGGGGACARAAAATTTAAAATCTTTGAAAGGTCTTATTTTA 2940
     2941 CAGCCATATCTAAATTATCTTAAGAAAATTTTTAACAAAGGGAATGAAATATATCATG 3000
     3001 ATTCTGTTTTTCCAAAAGTAACCTGAATATAGCAATGAAGTTCAGTTTTGTTATTGGTAG 3060
     3061 TTTGGGCAGAGTCTCTTTTTGCAGCACCTGTTGTCTACCATAATTACAGAGGACATTTCC 3120
     3121 ATGTTCTAGCCAAGTATACTATTAGAATAAARAAACTTAACATTGAGTTGCTTCAACAGC 3180
```

Fig. 2

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3241 AATAGAATATTTAATTGTGTAAGATCTAATAGTATCATTATACTTAAGCAATCATATTCC 3300
  3301 TGATGATCTATGGGAAATAACTATTATTTAATTAATATTGAAACCAGGTTTTAAGATGTG 3360
  3361 TTAGCCAGTCCTGTTACTAGTAAATCTCTTTATTTGGAGAGAAATTTTAGATTGTTTTGT 3420
  3421 TCTCCTTATTAGAAGGATTGTAGAAAGAAAAAATGACTAATTGGAGAAAAAATTGGGGAT 3480
  3481 ATATCATATTTCACTGAATTCAAAATGTCTTCAGTTGTAAATCTTACCATTATTTTACGT 3540
  3601 CTTGATAACAGAAGTTTTAAAATAGCCATCTTAGAATCAGTGAAATATGGTAATGTATTA 3660
   3661 TTTTCCTCCTTTGAGTNAGGTCTTGTGCTTTTTTTTCCTGGCCACTAAATNTCACCATNT 3720
   3721 CCAANAAGCAAANTAAACCTATTCTGAATATTTTTGCTGTGAAACACTTGNCAGCAGAGC 3780
   3841 CACTGAAACATTTCTAGTAGCCTGGAGNAGTTGACCTACCTGTGGAGATGCCTGCCATTA 3900
   3901 AATGGCATCCTGATGGCTTAATACACATCACTCTTCTGTGNAGGGTTTTAATTTTCAACA 3960
   3961 CAGCTTACTCTGTAGCATCATGTTTACATTGTATATAAAGATTATACNAAGGTGCAAT 4020
   4021 TGTGTATTTCTTCCTTAAAATGTATCAGTATAGGATTTAGAATCTCCATGTTGAAACTCT 4080
   4081 AAATGCATAGAAATAAAAAATAATAAAAAATTTTTCATTTTGGCTTTTCAGCCTAGTATTA 4140
   4141 AAACTGATAAAAGCAAAGCCATGCACAAAACTACCTCCCTAGAGAAAGGCTAGTCCCTTT 4200
   4201 TCTTCCCCATTCATTTCATTATGAACATAGTAGAAAACAGCATATTCTTATCAAATTTGA 4260
                      M N I V E N S I F L S N L M 14
SEQ. ID 6-1
   4261 TGAAAAGCGCCAACACGTTTGAACTGAAATACGACTTGTCATGTGAACTGTACCGAATGT 4320
15 KSANTFELKYDLSCELYRMS34
   4321 CTACGTATTCCACTTTTCCTGCTGGGGTTCCTGTCTCAGAAAGGAGTCTTGCTCGTGCTG 4380
        TYSTFPAGVPVSERSLARAG54
   4381 GTTTCTATTACACTGGTGTGAATGACAAGGTCAAATGCTTCTGTTGTGGCCTGATGCTGG 4440
        FYYTGVNDKVKCFCCGLMLD74
   4441 ATAACTGGAAAAGAGGAGACAGTCCTACTGAAAAGCATAAAAAGTTGTATCCTAGCTGCA 4500
        NWKRGDSPTEKHKKLYPSCR94
   4501 GATTCGTTCAGAGTCTAAATTCCGTTAACAACTTGGAAGCTACCTCTCAGCCTACTTTTC 4560
        F V Q S L N S V N N L E A T S Q P T F P 114
   4561 CTTCTTCAGTAACACATTCCACACACTCATTACTTCCGGGTACAGAAAACAGTGGATATT 4620
         SSVTHSTHSLLPGTENSGYF134
   4621 TCCGTGGCTCTTATTCAAACTCTCCATCAAATCCTGTAAACTCCAGAGCAAATCAAGAAT 4680
         R G S Y S N S P S N P V N S R A N Q E F 154
   4681 TTTCTGCCTTGATGAGAAGTTCCTACCCCTGTCCAATGAATAACGAAAATGCCAGATTAC 4740
         SALMRSSYPCPMNNENARLL174
   4741 TTACTTTCAGACATGGCCATTGACTTTTCTGTCGCCAACAGATCTGGCACGAGCAGGCT 4800
         TFQTWPLTFLSPTDLARAGF194
    175
    4801 TTTACTACATAGGACCTGGAGACAGAGTGGCTTGCTTTGCCTGTGGTGGAAAATTGAGCA 4860
        Y Y I G P G D R V A C F A C G G K L S N 214
    195
    4861 ATTGGGAACCGAAGGATAATGCTATGTCAGAACACCTGAGACATTTTCCCAAATGCCCAT 4920
    215 WEPKDNAMSEHLRHFPKCPF234
```

Fig. 2 (cont.)

4921 235	TTAT		AAT N	CAG Q	CTI L	CAA Q	GAC D	ACT T	TTCI S	AAG? R	Y Y	CACI T	AGT'	rtc: S	raat N	CTC L	GAG(S	CAT(M	GCA(Q	JA T	4980 25 4
4981 255	CACA'	IGCA A	AGCC A	CGC R	TTI F	'AAZ K	ACA T	TT(F	CTT: F	N	CTGC W 1_2	P	CTC' S	TAG'	rgt: V	rct: L	AGT' V	raa: N	P P	E E	5040 274
5041 275	AGCA Q	GCTI L	IGCA A	AGT S	rgce A	G G	TTT F	'AT' Y	rta' Y	TGT	GG:	raa(CAG S	TGA' D	TGA! D	rgt V	CAA K	ATG(CTT' F	TT C	5100 294
5101 295		TGA: D	rgg] G	rggz g 2	L	CAG(R	GTG:	rtg(W	GGA. E	ATC' S	rgg: G	AGA' D	TGA D	TCC: P	ATG W	ggt V	TCA Q	ACA' H	TGC A	CA K	5160 314
5161 315	AGTG W	GTT'		AĀĢ R	ርጥር '	rga(GTA(Y	CTT L	GAT.	R	AAT' I 4	TAA K	AGG G	ACA Q	GGA E	GTT F	CAT	CCG R	TCA Q	AG V	5220 334
5221 335	Q	A	S	Y	P	H	L 4 !	L	E	ACA Q	GCT L	L	S	T	S	D	S	P	G	D	5280 354
355	_	N	A	E	S	ATC. S	AAT T	TAT I	H	F	E	P	G	E	D	H	S	E	D	A	374
5341 375	CAAT	M	M	N	T	P	٧	I	N	A	- A -	V	E	M	G.	F	S	R	- S	L	394
5401 395	٧	K	Q	T	V	Q	R	K	I	L	A	T	G	E	N	Y	R	L	V	N	5460 414
5461 415	ATG	TCT	TGT	GŢT	AGA	CTT	ACT	CAA	TGC	AGA	AGA D	TGA E	CAA I	'AAC R	GGA E	AGA E	AGG <i>i</i> E	GAC R	AGA E	AA	5520 434
								5	6	-	_		_			_	_		_		
5521 43 5	GAG(CAAC T	TGA E	GGA E	AAA K	AGA E	ATC S	5 AAA N	6 ATGP D	LTTI	'AT'I L	'AT'I L	- 'AA' I	rcce R	- GAA K	- LGAZ N	TAC R	raag M	:GG(A	AC L	5580 454
	GAGO A TTT	CAAC T TCA Q	TGA E ACA H	GGA E TTT L	AAA K 'GAC T	AGA E TTC C	ATC S TGT V	5 AAA N N 'AAT I	6 ATG# D TTC(P	TTT L CAAT I	'ATT L CCT L	'ATT L 'GG! D	TAAT I I TA(CCC R R TCT L	GAA K TACT L	- GAA N AA: T	TAC R CTGC	GAAT M CCGG	GG(A BAA' I	AC L TA	5640 474
435 5581 455 5641 475	GAGG	CAAC T TCA Q ATGA	TGA E ACA H ACA	GGA E TTT L AGA	AAA K GAC T AACA H	AGA E TTG C ATGA D	ATC S TGI V	AAA N AAA I TAT	ATGA TTCO P TTAA	ATTI L CAAT I AACA Q	'ATT L 'CCT L GAZ	AGA(TAAT I ATAC S CAC	CCCO R TCTCT L AGAC	GAA K TACT L CGTC S	GAA N TAAC T CTT:	TAC	AAG	GGC A SAAT I CAAC R	AC L TA I AG	5640 474 5700 494
435 5581 455 5641 475 5703 499	GAGG A TTTT F TTA N L AAC	CAAC T TCA Q ATGA E	TGA ACA H ACA Q TTGA	GGA E TTT L AGA E	AAA K GAC T AACA H	AGA E TTG C ATGA D	ATC S TGI V TGI V	AAI N I I I I I I I I I	6 ATGA TTCO P TTAA K AAGO	ATTI L CAAI I AACA Q Q GAAA	CCT L AGAZ K	L TGO	TAATI ATAC S CAC Q CAG A	CCAC	GAA K TACT L CGTC S CTGT	GAA N TAA T CTT: L FAT:	TACI R CTG(A FACI Q CA(R	GAAGO AAGO AAGO A	GGC A FAA'I CAAC R ACTC	CTC	5640 474 5700 494 5760 514
435 5581 455 5641 475 5703 499 5763	GAGGA A TTTT	CAAC T TTCA Q ATGA TGA I AAGA	TGA E ACA H ACA Q TTGA D AAG(GGA E TTT L AGA T ATAC T	AAAA K TGAC T AACA H CGAN I	AGA E TTTC C ATGA D TTTT L CTG: V	ATC S TGT V TGT V TGT T	SAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	6 ATGA D TTCO P TTAA K AAGG G ATGA	AACA Q GAAA N AGCA H	AGAMATTI	L CGGA AGAC T TTGC A	I ATAC I ATAC S CACA CAGA A 6 V	PCCCG R FTCT L AGAC T CCAC T T CCAC	GGAA K IACT L CGTC S CTGT V AACI	AGAACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	R R CTGC A FACA FACA R ACA	EAAT M CCGC G AAGA A SAAA N	GGGC A I I I I ACTC S AATT	CTC L ATA	5640 474 5700 494 5760 514 5820 534
435 5581 455 5641 475 5701 499 5761 511 582 53	GAGGA A TITT	T TCA Q Q ATGA E TGAT I AAGA E CCA	TGA ACA H ACA Q TTGA AAGC A CAGA E CATC	GGA E TTTT L AGA E ATAC T E AAGA D	AAA K 'GAC T AACA H CGAT I AAGG V	AGA E TTTG C ATGA D TTTT L CTGT S	ATC S TGT V TGT T CAG D GTA	SAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	6 ATGA TTCO P TTAA K AAGG G ATGA E TAC P	L CAAT L Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	CCI L CCI L AGA/ X TATT: L TGG/	CATTILE CONTROL OF CON	TAATI I TAACA S CACA Q CAGA A CACA Q CAACA Q CCA	CCACT TGC:	GGAAACI CTGCC R	AGAM TAAO T L CTT: F FAGG. D	TTC	GAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	GGGCAACAACAACAACAACAACAACAACAACAACAACAAC	CTC L ATA AAG	5640 474 5700 494 5760 514 5820 534 5880 554
435 5581 455 5641 475 5703 499 5763 519 582 53 588 55	GAGGA TTTT F TTA N L AAC L TGC D TTC TTC TTC TTC TTC TTC TTC TTC TTC	CAAC T TTCA Q ATGA E TGAT AAGA CCA T GAAA	TGA LACA H LACA Q LTGA CAGA CAGA CATAG	GGA E TTTT L AGA E ATAC T AAGA CTGA CTGA CTTAT	AAAAGOAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAA	AGA E TTTG C ATGA TTTTT L CTGT V ITTT C AAG	ATC S TGT V TAGT L CAG D CAG M ATT	SAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	6 ATGA TTCC P TTAA AAGG G ATGA TAC P ACA K CTC	ATTT L CAAT I AACA Q GAAA N AGCA H CAGC V AAGC	CTT	CGGA CGGA CTGGA TTGGCA AAGG ETGGT AAAGA ETGT S	TAATI I TAACI S CAGI A 6 O	CCAC T T GCC T T T CCAC T T T T T T T T T T T T T	GTC	GGAAGGA R TTA	TTCC	GTA	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	CTC L ATA AAG E GTC GTA	5640 474 5700 494 5760 514 5820 534

Fig. 2 (cont.)

6001 5 95	CAAT I	CAA K	.GGG G	TAC T	AGT V	TCG R	TAC T	ATI F	TC' L	TTI S		TG.	AA(AA	GA <i>I</i>	ACC	AAZ	AAC.	ATC	GTC	TAA	AC	6060 604
6121 6181 6241 6301 6361	TTTA AAAA ATCT ATGA AAAT TTGG	TTTI AAA ACC TGT	TTA ACCA AAA AAA TAAC	TTT TAT AAG TGA	ATT GAA AGG AGT	TAC CAT TAC AAA	AAC ATA CAC ACI	TCZ TTZ TAZ LATZ LAZZ	AAA TTT CAA AGA CAT	AAI TA(ACI TA' GAI	ACA SAA ACA ITT AGO	ATT AAC AAT IGA ICA	GT'. TA. AT'. GT'. GG'	TTT AGA ICA IGT	GT(GAI AT(CC' GG'	STA ATG CAA ITT IGG	ACA ATA AA' 'AA'	ATA AGG ITT GAA IGT	TTT CTT CAG TTT GCC	'ATA 'TT('CA' 'TAI 'TG'	ATAT STTC STAT STATA SATA SAGT	GT TT TG TT CC	6120 6180 6240 6300 6360 6420 6480
6421 6481 6541 6601 6661	TGAG GTCT GGGI	GAC(TTT: ACA:	CTC TTTC TGG1	CCT ATC	TTA AGI	AAA GTO	ACI	AAA ATA	CAG CAT	AA CG	CAZ AAC	AAA 3GI	AC.	AAA GCA	AC.	ACC TAI	'AG 'GT'	GGA TGA	CAC ATC	AT:	rtci Atti	TA:	6540 6600

Fig. 2 (cont.)

```
SEQ. ID 7-1 GAGCGCCCGGGCTGATCCGAGCCGAGCGGGCCGTATCTCCTTGTCGGCGCCGCTGATTCC 60
      61 CGGCTCTGCGGAGGCCTCTAGGCAGCCGCGCAGCTTCCGTGTTTGCTGCGCCCGCACTGC 120
     121 GATTTACAACCCTGAAGAATCTCCCTATCCCTATTTTGTCCCCCTGCAGTAATAAATCCC 180
     181 ATTATGGAGATCTCGAAACTTTATAAAGGGATATAGTTTGAATTCTATGGAGTGTAATTT 240
     301 GATTACTGATACTTTATGCTAAGCAGTACTTTTTTGGTAGTACAATATTTTGTTAGGCGT 360
     361 TTCTGATAACACTAGAAAGGACAAGTTTTATCTTGTGATAAATTGATTAATGTTTACAAC 420
     421 ATGACTGATAATTATAGCTGAATAGTCCTTAAATGATGAACAGGTTATTTAGTTTTTAAA 480
     541 CTTCAGTTGATCAAGAATAATAGTGGTATACAAAGTTAGGAAGAAAGTCAACATGATGCT 600
     601 GCAGGAAATGGAAACAAATACAAATGATATTTAACAAAGATAGAGTTTACAGTTTTTGAA 660
     661 CTTTAAGCCAAATTCATTTGACATCAAGCACTATAGCAGGCACAGGTTCAACAAAGCTTG 720
     721 TGGGTATTGACTTCCCCCAAAAGTTGTCAGCTGAAGTAATTTAGCCCACTTAAGTAAATA 780
     781 CTATGATGATAAGCTGTGTGAACTTAGCTTTTAAATAGTGTGACCATATGAAGGTTTTAA 840
     841 TTACTTTGTTTATTGGAATAAAATGAGATTTTTTGGGTTGTCATGTTAAAGTGCTTATA 900
     901 GGGAAAGAAGCCTGCATATAATTTTTTACCTTGTGGCATAATCAGTAATTGGTCTGTTAT 960
     961 TCAGGCTTCATAGCTTGTAACCARATATAAATAAAAGGCATAATTTAGGTATTCTATAGT 1020
    1021 TGCTTAGAATTTTGTTAATATAAATCTCTGTGAAAAATCAAGGAGTTTTAATATTTTCAG 1080
    1081 AAGTGCATCCACCTTTCAGGGCTTTAAGTTAGTATTAACTCAAGATTATGAACAAATAGC 1140
    1141 ACTTAGGTTACCTGAAAGAGTTACTACAACCCCAAAGAGTTGTGTTCTAAGTAGTATCTT 1200
    1201 GGTAATTCAGAGAGATACTCATCCTACCTGAATATAAACTGAGATAAAATCCAGTAAAGAA 1260
    1261 AGTGTAGTAAATTCTACATAAGAGTCTATCATTGATTTCTTTTTTGTGGTAAAAATCTTAG 1320
    1321 TTCATGTGAAGAAATTTCATGTGAATGTTTTAGCTATCAAACAGTACTGTCACCTACTCA 1380
1381 TGCACAAAACTGCCTCCCAAAGACTTTTCCCAGGTCCCTCGTATCAAAACATTAAGAGTA 1440 SEQ. ID 8 - 2 H K T A S Q R L F P G P S Y Q N I K S I 21
    1501 ATGACTTTTCCTGTGAACTCTACAGAATGTCTACATATTCAACTTTCCCCGCCGGGGTGC 1560
42 D F S C E L Y R M S T Y S T F P A G V P 61
    1621 TCAAATGCTTCTGTTGTGGCCTGATGCTGGATAACTGGAAACTAGGAGACAGTCCTATTC 1680
82 K C F C C G L M L D N W K L G D S P I Q 101
    1681 AAAAGCATAAACAGCTATATCCTAGCTGTAGCTTTATTCAGAATCTGGTTTCAGCTAGTC 1740
102 K H K Q L Y P S C S F I Q N L V S A S L 121
     1801 CCACCTTGGAACATAGTAGCTTGTTCAGTGGTTCTTACTCCAGCCTTTCTCCAAACCCTC 1860
142 T L E H S S L F S G S Y S S L S P N P L 161
     1861 TTAATTCTAGAGCAGTTGAAGACATCTCTTCATCGAGGACTAACCCCTACAGTTATGCAA 1920
162 N S R A V E D I S S R T N P Y S Y A M 181
     1921 TGAGTACTGAAGAAGCCAGATTTCTTACCTACCATATGTGGCCATTAACTTTTTTGTCAC 1980
182 T F L T Y H M W P L T F L S P 201
```

Fig. 3

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1981 CATCAGAATTGGCAAGAGCTGGTTTTTATTATATAGGACCTGGAGATAGGGTAGCCTGCT 2040
    SELARAGFYYIGPGDRVACF221
2041 TTGCCTGTGGTGGGAAGCTCAGTAACTGGGAACCAAAGGATGATGCTATGTCAGAACACC 2100
   ACGGKLSNWEPKDDAMSEHR241
2101 GGAGGCATTTTCCCAACTGTCCATTTTTGGAAAATTCTCTAGAAACTCTGAGGTTTAGCA 2160
    RHFPNCPFLENSLETLRFSI261
2161 TTTCAAATCTGAGCATGCAGACACATGCAGCTCGAATGAGAACATTTATGTACTGGCCAT 2220
    SNLSMQTHAARMRTFMYWPS281
2221 CTAGTGTTCCAGTTCAGCCTGAGCAGCTTGCAAGTGCTGGTTTTTATTATGTGGGTCGCA 2280
     S V P V Q P E Q L A S A G F Y Y V G`R N 301
2281 ATGATGATGTCAAATGCTTTTGTTGTGATGGTGGCTTGAGGTGTTGGGAATCTGGAGATG 2340
302 D D V K C F C C D G G L R C W E S G D D 321
4_5
2341 ATCCATGGGTAGAACATGCCAAGTGGTTTCCAAGGTGTGAGTTCTTGATACGAATGAAAG 2400
322 PWVEHAKWFPR^CEFLIRMKG341
5 6
2401 GCCAAGAGTTTGTTGATGAGATTCAAGGTAGATATCCTCATCTTCTTGAACAGGTGTTGT 2460
342 QEFVDEIQGRYPHLLEQĹLS361
                                 6~7
2461 CAACTTCAGATACCACTGGAGAAGAAATGCTGACCCACCAAITATTCATTTTGGACCTG 2520
    TSDTTGEENADPP1`IHFGPG381
2521 GAGAAAGTTCTTCAGAAGATGCTGTCATGATGAATACACCTGTGGTTAAATCTGCCTTGG 2580
    ESSSEDAVMMNTPVVKSALE401
2581 AAATGGGCTTTAATAGAGACCTGGTGAAACAAACAGTTCAAAGTAAAATCCTGACAACTG 2640
    MGFNRDLVKQTVQSKILTTG421
2641 GAGAGAACTATAAAACAGTTAATGATATTGTGTCAGCACTTCTTAATGCTGAAGATGAAA 2700
    ENYKTVNDIVSALLNAEDEK441
2701 AAAGAGAAGAGGAAAAAAAAAAAAAAAAGCTGAAGAAATGGCATCAGATGATTTGTCATTAA 2760
442 REEEKEKQAEEMASÕDLSLI461
2761 TTCGGAAGAACAGAATGGCTCTCTTTCAACAATTGACATGTGTGCTTCCTATCCTGGATA 2820
462 RKNRMALFQQLTCVLPILDN481
2821 ATCTTTTAAAGGCCAATGTAATTAATAAACAGGAACATGATATTATTAAACAAAAAACAC 2880
482 LLKANVINKQEHDIIKQKTQ501
2881 AGATACCTTTACAAGCGAGAGAACTGATTGATACCATTTTGGTTAAAGGAAATGCTGCGG 2940
502 I P L Q A R E L I D T I L V K G N A A A 521
2941 CCAACATCTTCAAAAACTGTCTAAAAGAAATTGACTCTACATTGTATAAGAACTTATTTG 3000
522 NIFKNCLKEIDSTLYKNLFV541
  8.
                                 9.
                                   .10
3001 TGGATAAGAATATGAAGTATATCCCAACAGAAGATGTTTCAGGTCTGTCACTGGAAGAAC 3060
 542 DKNMKYIPTEDVSGLSLEEQ561
```

Fig. 3 (cont.)

3061 562	AATI L	GAG R			GCA Q		AGA E				TAI K	LDAA V	GTO C	TATE M	GG: D	ACA: K	_		GTI V	TCI S	rg V	3120 581
3121 582	TTGT V	ATT F	TAT I	TCC P	TTC C					AG! V		GCCZ Q	AGG? E	AATO C		CCC(P	CTI S		CT <i>i</i> L			3180 601
3181 602	AATO C	CCC P	TAT I	TTC C	CAG R	9999 G	TAT I	'AA' I	CA? K	AGG(G	GTA(CTGT V	TTC(R	TAC	'AT' F	TTC' L	TCI S	_	TA? *	\AG2	AA	3240 618
3241 3301 3361 3421 3481 3541 3661 3661	AAAT CCAT GCTT TTTA GGAC AGAA TTCA GATT	ATDI TTTT TTTAG AAGC ADTA	AAG TACA TGT TTT GAG	TAI TAI AG(CA(GAI TTI	AAA ATAA GAA CTG(ATA(ATG(ATT)	AGG(ATC) AGA! CTT(CTA) CTG(CCT(GAAT TTGT TTTI GTTI AAT CCGI	TTT! ATG! ATG! ATG! ATA! AAT!	TGAC TGI TTTC CATC AGTC	STT' AAA SGT(CAT' STA(CTT'	ITT(AGA' GAA(ITC) GAA(IGG'	CAAT TGGT CTAT AGGI AAGI TGCT	TTA(TAT(TAT; AGT; AAC;	GTAA CATA FAGT FACT FGGA FCAC	CA'TA'ATA'GG	TTC: TTT: GTA' ATT' CCA GTG	ATO AAT TGT TGT GGA	TTT CT CT CTG TTG AC	TAI AC(TT(TC) AAI	AGTO ATC: CTAL CTT: CGGL ATAL	CT TG AG TC AG AG	3300 3360 3420 3480 3540 3600 3660 3720

Fig. 3 (cont.)

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SEQ. ID 9-1 ATTTTTTAAATTGATGCATTAACATTCTAAACATTCATCTGTTTTTAAATAGTAAAAATT 60
     61 GAACTTTGCCTTGAATATGTAATGATTCATTATAACAATTATGCATAGTCTTTAATAATC 120
    121 TGCATATTTTATGCTGCTTTCATGTTTTTCCTAATTAATGACTTCACATGTTTAATATTT 180
    181 ATAATTTTCTGTCATAGTTTCCATATTTATATAAAATGAATACTTAAGATCAGTAATTC 240
    241 TGCTCTGTTTGTTTATATACTATTTTCCATCAAAAGACAAAATGGGACTGAGGTTGAGGC 300
    301 TCGTTGCTAAAGCACTTTCCTAAAATGCAAAAGGCCCTATGATGGATCCCTAGTACTTAT 360
    361 TTAAGTGAGAGAAAACAGGCTGGGGGTGTAGGTCTGTTAGAGCATGTGTTTGGCATTAT 420
    421 GTGAAGCCCAAACACTAAAAAAGGAGAACAAACAAAAGCGCAGACTTTAAAACTCAAGTG 480
    481 GTTTGGTAATGTACGACTCTACTGTTTAGAATTAAAATGTGTCTTAGTTATTGTGCCATT 540
    541 ATTTTTATGTCATCACTGGATAATATATTAGTGCTTAGTATCAGAAATAGTCCTTATGCT 600
    601 TTGTGTTTTGAAGTTCCTAATGCAATGTTCTCTTTCTAGAAAAGGTGGACAAGTCCTATT 660
    661 TTCCAGAGAAGATGACTTTTAACAGTTTTGAAGGAACTAGAACTTTTGTACTTGCAGACA 720
                MTFNSFEGTRTFVLADT17
SEQ. ID 10-1
    721 CCAATAAGGATGAAGAATTTGTAGAAGAGTTTAATAGATTAAAAACATTTGCTAACTTCC 780
         NKDEEFVEEFNRLKTFANFP37
    781 CAAGTAGTAGTCCTGTTTCAGCATCAACATTGGCGCGAGCTGGGTTTCTTTATACCGGTG 840
         S S S P V S A S T L A R A G F L Y T G E 57
    G D T V Q C F S C H A A I D R W Q Y G D 77
    901 ACTCAGCTGTTGGAAGACACAGGAGAATATCCCCCAAATTGCAGATTTATCAATGGTTTTT 960
         SAVGRHRRISPNCRFINGFY97
    961 ATTTTGAAAATGGTGCTGCACAGTCTACAAATCCTGGTATCCAAAATGGCCAGTACAAAT 1020
         FENGAAQSTNPGIQNGQYKS117
    1021 CTGAAAACTGTGTGGGAAATAGAAATCCTTTTGCCCCTGACAGGCCACCTGAGACTCATG 1080
        ENCVGNRNPFAPDRPETHA137
    118
    1081 CTGATTATCTCTTGAGAACTGGACAGGTTGTAGATATTTCAGACACCATATACCCGAGGA 1140
        DYLLRTGQVVDISDTIYPRN157
    1141 ACCCTGCCATGTGTAGTGAAGAAGCCAGATTGAAGTCATTTCAGAACTGGCCGGACTATG 1200
         PAMCSEEARLKSFQNWPDYA177
    1201 CTCATTTAACCCCCAGAGAGTTAGCTAGTGCTGGCCTCTACTACACAGGGGCTGATGATC 1260
         H L T P R E L A S A G L Y Y T G A D D Q 197
     178
    1261 AAGTGCAATGCTTTTGTTGTGGGGGAAAACTGAAAAATTGGGAACCCTGTGATCGTGCCT 1320
          V Q C F C C G G K L K N W E P C D R A W 217
    1321 GGTCAGAACACAGGAGACACTTTCCCAATTGCTTTTTTGTTTTGGGCCGGAACGTTAATG 1380
          SEHRRHFPNCFFVLGRNVNV237
    1381 TTCGAAGTGAATCTGGTGTGAGGTTCTGATAGGAATTTCCCAAATTCAACAAACTCTCCAA 1440
         R S E S G V S S D R N F P N S T N S P R 257
    1441 GAAATCCAGCCATGGCAGAATATGAAGCACGGATCGTTACTTTTGGAACATGGACATCCT 1500
         NPAMAEYEARIVTFGTWTS 277
```

Fig. 4

12/33 1501 CAGTTAACAAGGAGCAGCTTGCAAGAGCTGGATTTTATGCTTTAGGTGAAGGCGATAAAG 1560 V N K E Q L A R A G F Y Á L G E G D K V 297 1561 TGAAGTGCTTCCACTGTGGAGGAGGGCTCACGGATTGGAAGCCCAAGTGAAGACCCCTGGG 1620 KCFHCGGGLTDWKPSEDPWD317 2,3 1621 ACCAGCATGCTAAGTGCTACCCAGGGTGCAAATACCTATTGGATGAGAAGGGGCAAGAAT 1680 Q H A K C Y P G C K Y L L D E K G Q E Y 337 3. 1681 ATATAAATAATATTCATTTAACCCATCCACTTGAGGAATCTTTGGGGAAGAACTGCTGAAA 1740 HPLEESLGRTAEK 357 1741 AAACACCACCGCTAACTAAAAAAATCGATGATACCATCTTCCAGAATCCTATGGTGCAAG 1800 TPPLTKKID ĎTIFQNPM V Q E 377 1801 AAGCTATACGAATGGGATTTAGCTTCAAGGACCTTAAGAAAACAATGGAAGAAAAAATCC 1860 AIRMGFSFKDLKKTMEEKIQ397 1861 AAACATCCGGGAGCAGCTATCTATCACTTGAGGTCCTGATTGCAGATCTTGTGAGTGCTC 1920 T S G S S Y L S L E V L I A D L V S A Q 417 5. 6ر 1921 AGAAAGATAATACGGAGGATGAGTCAAGTCAAACTTCATTGCAGAAAGACATTAGTACTG 1980 418 K D N T E D E S S Q T S L Q K D I S T E 437 1981 AAGAGCAGCTAAGGCGCCTACAAGAGGAGAAGCTTTCCAAAATCTGTATGGATAGAAATA 2040 EQLRRLQEEKLSKICMDRN 1457 2041 TTGCTATCGTTTTTTTCCTTGTGGACATCTGGCCACTTGTAAACAGTGTGCAGAAGCAG 2100 AIVFFPCGHLATCKQCAEAV477 2101 TTGACAAATGTCCCATGTGCTACACCGTCATTACGTTCAACCAAAAAATTTTTATGTCTT 2160 478 D K C P M C Y T V I T F N Q K I F M S * 496 2161 AGTGGGGCACCACATGTTATGTTCTTCTTGCTCTAATTGAATGTGTAATGGGAGCGAACT 2220 2221 TTAAGTAATCCTGCATTTGCATTCCATTAGCATCCTGCTGTTTCCAAATGGAGACCAATG 2280 2281 CTAACAGCACTGTTTCCGTCTAAACATTCAATTTCTGGATCTTTCGAGTTATCAGCTGTA 2340 2341 TCATTTAGCCAGTGTTTTACTCGATTGAAACCTTAGACAGAGAAGCATTTTATAGCTTTT 2400 2401 CACATGTATATTGGTAGTACACTGACTTGATTTCTATATGTAAGTGAATTCATCACCTGC 2460 2461 ATGTTTCATGCCTTTTGCATAAGCTTAACAAATGGAGTGTTCTGTATAAGCATGGAGATG 2520 2521 TGATGGAATCTGCCCAATGACTTTAATTGGCTTATTGTAAACACGGAAAGAACTGCCCCA 2580 2581 CGCTGCTGGGAGGATAAAGATTGTTTTAGATGCTCACTTCTGTGTTTTTAGGATTCTGCCC 2640 2641 ATTTACTTGGAATTTATTGGAGTTATAATGTACTTATATGATATTTCCGAA 2691

Fig. 4 (cont.)

SEQ. D - 1 TGGGAGTTCCCCGGAGCCCTGGAGGAAAGCACCGCAGGTCTGAGCAGCCCTGAGCC 61 AGGGTGGGGGCAGTGGCTAAGGCCTAGCTGGGGACGATTTAAAGGTATCGCGCCAC	GGGC	c 6	50
121 CCACACCCCACAGGCCAGGCGAGGTGCCACCCCCGGAGATCAGAGGTCATTGCTG			
121 CCACACCCCACAGGCCAGGCGAGGGGGGGGGGGGGGGG	CATO	a 1	240
181 TCAGAGCCTAGGAAGTGGGCTGCGTATCAGCCTAGCAGTAAAACCGACCAGAAGC	CWI	5 4 2 1	200
241 CACAAAACTACATCCCCAGAGAAAGACTTGTCCCTTCCCCTCCCT			
301 ACATGGTTCAAGACAGCGCCTTTCTAGCCAAGCTGATGAAGAGTGCTGACACCTTT	GAGI E 1		
SEQ.ID IZ-1 M V Q D S A F II A K II M K D II D I I			_ `
361 TGAAGTATGACTTTTCCTGTGAGCTGTACCGATTGTCCACGTATTCAGCTTTTCCC 21 K Y D F S C E L Y R L S T Y S A F P	AGG(R	G	420 40
421 GAGTTCCTGTGTCAGAAAGGAGTCTGGCTCGTGCTGGCTTTTACTACACTGGTGCC 41 V P V S E R S L A R A G F Y Y T G A	N I	D	60
481 ACAAGGTCAAGTGCTTCTGCTGTGGCCTGATGCTAGACAACTGGAAACAAGGGGAC			
61 K V K C F C C G L M L D N W K Q G D	S	P	80
541 CCATGGAGAAGCACAGAAAGTTGTACCCCAGCTGCAACTTTGTACAGACTTTGAA	CCA	.G	600
81 MEKHRKLYPSCNFVQTLN	P .	A	100
601 CCAACAGTCTGGAAGCTAGTCCTCGGCCTTCTCTTCCTTC	CATG	I C	660
101 N S L E A S P R P S L P S T A M S T	M	P	120
661 CTTTGAGCTTTGCAAGTTCTGAGAATACTGGCTATTTCAGTGGCTCTTACTCGAG	CTTT	ľC	720
121 L S F A S S E N T G Y F S G S Y S S	F	P	140
721 CCTCAGACCCTGTGAACTTCCGAGCAAATCAAGATTGTCCTGCTTTGAGCACAAG	rccc	T	780
141 S D P V N F R A N Q D C P A L S T S	P	Y	160
781 ACCACTTTGCAATGAACACAGAGAAGGCCAGATTACTCACCTATGAAACATGGCC	ATTG	ЭT	840
161 H F A M N T E K A R L L T Y E T W P	L	S	180
841 CTTTTCTGTCACCAGCAAAGCTGGCCAAAGCAGGCTTCTACTACATAGGACCTGG	AGAT	ΓA	900
181 F L S P A K L A K A G F Y Y I G P G	D	D	
181 F F S P A K H A K A G I I I I G I G		K	200
901 GAGTGGCCTGCTTTGCGTGCGATGGGAAACTGAGCAACTGGGAACGTAAGGATGA	TGCI		200
901 GAGTGGCCTGCTTTGCGTGCGATGGGAAACTGAGCAACTGGGAACGTAAGGATGA 201 V A C F A C D G K L S N W E R K D D	TGCT A		200
901 GAGTGGCCTGCTTTGCGTGCGATGGGAAACTGAGCAACTGGGAACGTAAGGATGA 201 V A C F A C D G K L S N W E R K D D	a GTCI	TA M TG	960 220 1020
901 GAGTGGCCTGCTTTGCGTGCGATGGGAAACTGAGCAACTGGGAACGTAAGGATGA	a GTCI	TA M TG	960 220 1020
901 GAGTGGCCTGCTTTGCGTGCGATGGGAAACTGAGCAACTGGGAACGTAAGGATGA 201 V A C F A C D G K L S N W E R K D D 961 TGTCAGAGCACCAGAGGCATTTCCCCCAGCTGTCCGTTCTTAAAAGACTTGGGTCA 221 S E H Q R H F P S C P F L K D L G Q	A GTCI S AACI	TA M TG A	960 220 1020 240 1080
901 GAGTGGCCTGCTTTGCGTGCGATGGGAAACTGAGCAACTGGGAACGTAAGGATGA 201 V A C F A C D G K L S N W E R K D D	A GTCI S AACI	TA M TG A	960 220 1020 240 1080
901 GAGTGGCCTGCTTTGCGTGCGATGGGAAACTGAGCAACTGGGAACGTAAGGATGA 201 V A C F A C D G K L S N W E R K D D 961 TGTCAGAGCACCAGAGGCATTTCCCCCAGCTGTCCGTTCTTAAAAGACTTGGGTCA 221 S E H Q R H F P S C P F L K D L G Q 1021 CTTCGAGATACACTGTCTCTAACCTGAGCATGCAGACACACGCAGCCCGTATTAG 241 S R Y T V S N L S M Q T H A A R I R	A GTCT S AACA T	TA M TG A AT F	960 220 1020 240 1080 260
901 GAGTGGCCTGCTTTGCGTGCGATGGGAAACTGAGCAACTGGGAACGTAAGGATGA 201 V A C F A C D G K L S N W E R K D D 961 TGTCAGAGCACCAGAGGCATTTCCCCAGCTGTCCGTTCTTAAAAGACTTGGGTCA 221 S E H Q R H F P S C P F L K D L G Q 1021 CTTCGAGATACACTGTCTCTAACCTGAGCATGCAGACACACGCAGCCCGTATTAG 241 S R Y T V S N L S M Q T H A A R I R 1081 TCTCTAACTGGCCTTCTAGTGCACTAGTTCATTCCCAGGAACTTGCAAGTGCGGG 261 S N W P S S A L V H S Q E L A S A G	A GTCT S AACA T	TA M TG A AT F	960 220 1020 240 1080 260
901 GAGTGGCCTGCTTTGCGTGCGATGGGAAACTGAGCAACTGGGAACGTAAGGATGA 201 V A C F A C D G K L S N W E R K D D 961 TGTCAGAGCACCAGAGGCATTTCCCCCAGCTGTCCGTTCTTAAAAGACTTGGGTCA 221 S E H Q R H F P S C P F L K D L G Q 1021 CTTCGAGATACACTGTCTCTAACCTGAGCATGCAGACACACGCAGCCCGTATTAG 241 S R Y T V S N L S M Q T H A A R I R 1081 TCTCTAACTGGCCTTCTAGTGCACTAGTTCATTCCCAGGAACTTGCAAGTGCGGG 261 S N W P S S A L V H S Q E L A S A G	GTCT SAACA T CTTT	TA M TG A AT F TT Y	960 220 1020 240 1080 260 1140 280
901 GAGTGGCCTGCTTTGCGTGCGATGGGAAACTGAGCAACTGGGAACGTAAGGATGA 201 V A C F A C D G K L S N W E R K D D 961 TGTCAGAGCACCAGAGGCATTTCCCCAGCTGTCCGTTCTTAAAAGACTTGGGTCA 221 S E H Q R H F P S C P F L K D L G Q 1021 CTTCGAGATACACTGTCTCTAACCTGAGCATGCAGACACACGCAGCCCGTATTAG 241 S R Y T V S N L S M Q T H A A R I R 1081 TCTCTAACTGGCCTTCTAGTGCACTAGTTCATTCCCAGGAACTTGCAAGTGCGGG 261 S N W P S S A L V H S Q E L A S A G 1141 ATTATACAGGACACAGTGATGATGTCAAGTGTTTTTGCTGTGATGGTGGGCTGAG 281 Y T G H S D D V K C F C C D G G L R	GTCT SAACA T CTTT	TA M TG A AT F TT Y	960 220 1020 240 1080 260 1140 280
901 GAGTGGCCTGCTTTGCGTGCGATGGGAAACTGAGCAACTGGGAACGTAAGGATGA 201 V A C F A C D G K L S N W E R K D D 961 TGTCAGAGCACCAGAGGCATTTCCCCCAGCTGTCCGTTCTTAAAAGACTTGGGTCA 221 S E H Q R H F P S C P F L K D L G Q 1021 CTTCGAGATACACTGTCTCTAACCTGAGCATGCAGACACACGCAGCCCGTATTAG 241 S R Y T V S N L S M Q T H A A R I R 1081 TCTCTAACTGGCCTTCTAGTGCACTAGTTCATTCCCAGGAACTTGCAAGTGCGGG 261 S N W P S S A L V H S Q E L A S A G	GTCT S SAACA F GTTT F GTGG C	TA M TG A TTY CTW	960 220 1020 240 1080 260 1140 280 1200 300

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    LRIKGQEFVSQVQAGYPHLL340
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   EQÎLSTSDSPEDENADAAÎ V 360
1381 TGCATTTTGGCCCTGGAGAAAGTTCGGAAGATGTCGTCATGATGAGCACGCCTGTGGTTA 1440
    H F G P G E S S E D V V M M S T P V V K 380
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EDEMREEQMEQAAEEEES D'D 440
1621 ATCTAGCACTAATCCGGAAGAACAAAATGGTGCTTTTCCAACATTTGACGTGTGTGACAC 1680
441 LALIRKNKM VLFQHLTC VTP460
1681 CAATGCTGTATTGCCTCCTAAGTGCAAGGGCCATCACTGAACAGGAGTGCAATGCTGTGA 1740
461 M L Y C L L S A R A I T E Q E C N A V K 480
Q K P H T L Q A S T L I D T V L A K G N 500
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                                   8,9
        7, 8
1861 ATATATTTGTGCAACAGGACATTAGGAGTCTTCCCACAGATGACATTGCAGCTCTACCAA 1920
    IF V`QQDIRSLPTDDIA Á`LPM 540
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   EEQLRKLQEERMCKVCMDRE560
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    V S I V F I P C G H L V V C K D C A P S 580
2041 CTCTGAGGAAGTGTCCCATCTGTAGAGGGACCATCAAGGGCACAGTGCGCACATTTCTCT 2100
581 LRKCPICRGTIKGTVRTFLS600
2101 CCTGAACAAGACTAATGGTCCATGGCTGCAACTTCAGCCAGGAGGAAGTTCACTGTCACT 2160
2161 CCCAGCTCCATTCGGAACTTGAGGCCAGCCTGGATAGCACGAGACACCGCCAAACACACA 2220
2281 TTTTAATTGGTTTCCTTAAAAGTGCTATTTGTTCCCAACTCAGAAAATTGTTTTCTGTAA 2340
2341 ACATATTTACATACTACCTGCATCTAAAGTATTCATATATTCATATATTCAGATGTCATG 2400
2401 AGAGAGGGTTTTGTTCTTGTTCCTGAAAAGCAGGGATTGCCTGCACTCCTGAAATTCTCA 2460
2461 GAAAGATTTACAATGTTGGCATTTATGGTTCAGAAACTAGAATCTTCTCCCGTTGCTTTA 2520
2641 CATAATTACCTCTTTTTTTTTAAAGAAAAAAAA 2676
```

Fig. 5 (cont.)

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SEQ. ID 13-1 AGTTATATAAAATACGAAGTTTTCAAAAAGAAGGCTAGTGCAACAGAAAAGCTTTGCTAA 60
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      1
     781 GGACAAAACTGTCTCCCAGAGACTCGGCCAAGGTACCTTACACCAAAAACTTAAACGTAT 840
SEQ. ID 14-2 D K T V S Q R L G Q G T L H Q K L K R I 21
     22 MEKSTILSNWTKESEEKMKF 41
     901 TGACTTTTCGTGTGAACTCTACCGAATGTCTACATATTCAGCTTTTCCCAGGGGAGTTCC 960
      42 D F S C E L Y R M S T Y S A F P R G V P 61
     961 TGTCTCAGAGAGGAGTCTGGCTCGTGCTGGCTTTTATTATACAGGTGTGAATGACAAAGT 1020
      62 V S E R S L A R A G F Y Y T G V N D K V 81
    1021 CAAGTGCTTCTGCTGTGGCCTGATGTTGGATAACTGGAAACAAGGGGACAGTCCTGTTGA 1080
      82 K C F C C G L M L D N W K Q G D S P V E 101
    1081 AAAGCACAGACAGTTCTATCCCAGCTGCAGCTTTGTACAGACTCTGCTTTCAGCCAGTCT 1140
     102 K H R Q F Y P S C S F V Q T L L S A S L 121
    1141 GCAGTCTCCATCTAAGAATATGTCTCCTGTGAAAAGTAGATTTGCACATTCGTCACCTCT 1200
     122 Q S P S K N M S P V K S R F A H S S P L 141
    1201 GGAACGAGGTGGCATTCACTCCAACCTGTGCTCTAGCCCTCTTAATTCTAGAGCAGTGGA 1260
     142 E R G G I H S N L C S S P L N S R A V E 161
     1261 AGACTTCTCATCAAGGATGGATCCCTGCAGCTATGCCATGAGTACAGAAGAGGCCAGATT 1320
     162 D F S S R M D P C S Y A M S T E E A R F 181
     1321 TCTTACTTACAGTATGTGGCCTTTAAGTTTTCTGTCACCAGCAGAGCTGGCCAGAGCTGG 1380
     182 L T Y S M W P L S F L S P A E L A R A G 201
     1381 CTTCTATTACATAGGGCCTGGAGACAGGGTGGCCTGTTTTGCCTGTGGTGGGAAACTGAG 1440
     202 F Y Y I G P G D R V A C F A C G G K L S 221
     1441 CAACTGGGAACCAAAGGATGATGCTATGTCAGAGCACCGCAGACATTTTCCCCACTGTCC 1500
      222 NWEPKDDAMSEHRRHFPHCP241
     1501 ATTTCTGGAAAATACTTCAGAAACACAGAGGTTTAGTATATCAAATCTAAGTATGCAGAC 1560
      242 F L E N T S E T Q R F S I S N L S M Q T 261
```

Fig. 6

```
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262 H S A R L R T F L Y W P P S V P V Q P E 281
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282 Q L A S A G F Y Y V D R N D D V K C F C 301
1681 TTGTGATGGTGGCTTGAGATGTTGGGAACCTGGAGATGACCCCTGGATAGAACACGCCAA 1740
302 C D G G L R C W E P G D D P W I E H A K 321
             ,2
1741 ATGGTTTCCAAGGTGTGAGTTCTTGATACGGATGAAGGGTCAGGAGTTTGTTGATGAGAT 1800
322 W F P R´C E F L I R M K G Q E F V D E I 341
1801 TCAAGCTAGATATCCTCATCTTCTTGAGCAGCTGTTGTCCACTTCAGACACCCCAGGAGA 1860
342 Q A R Y P H L L E Q L L S T S D T P G E 361
1861 AGAAAATGCTGACCCTACAGAGACAGTGGTGCATTTTGGCCCTGGAGAAAGTTCGAAAGA 1920
362 ENADPTETVVHFGPGESSKD 381
1921 TGTCGTCATGATGAGCACGCCTGTGGTTAAAGCAGCCTTGGAAATGGGCTTCAGTAGGAG 1980
382 V V M M S T P V V K A A L E M G F S R S 401
1981 CCTGGTGAGACAGACGGTTCAGCGGCAGATCCTGGCCACTGGTGAGAACTACAGGACCGT 2040
402 L V R Q T V Q R Q I L A T G E N Y R T V 421
422 N D I V S V L L N A E D E R R E E E K E 441
                       4、
                        5ر
2101 AAGACAGACTGAAGAGATGGCATCAGGTGACTTATCACTGATTCGGAAGAATAGAATGGC 2160
442 R Q T E E M A S G D L S L I R K N R M A 461
2161 CCTCTTTCAACAGTTGACACATGTCCTTCCTATCCTGGATAATCTTCTTGAGGCCAGTGT 2220
462 L F Q Q L T H V L P I L D N L L E A S V 481
482 I T K Q E H D I I R Q K T Q I P L Q A R 501
2281 AGAGCTTATTGACACCGTTTTAGTCAAGGGAAATGCTGCAGCCAACATCTTCAAAAACTC 2340
502 E L I D T V L V K G N A A A N I F K N S 521
                                   5_6
2341 TCTGAAGGAAATTGACTCCACGTTATATGAAAACTTATTTQTGGAAAAGAATATGAAGTA 2400
522 L K E I D S T L Y E N L F V E K N M K Y 541
                    6,7
2401 TATTCCAACAGAAGACGTTTCAGGCTTGTCATTGGAAGAGCAGTTGCGGAGATTACAAGA 2460
542 I P T E D V S G`L S L E E Q L R R L Q E 561
2461 AGAACGAACTTGCAAAGTGTGTATGGACAGAGAGGTTTCTATTGTGTTCATTCCGTGTGG 2520
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582 H L V V C O E C A P S L R K C P I C R G 601
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 602 TIKGTVRTFLS*
                                                     612
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Fig. 6 (cont.)

2641	GTTGGACATCAGAAGCTGTCAGAACAAAGAATGAACTACTGATTTCAGCTCTTCAGCAGG	2700
2701	A CATTOTA OTOTOTOTO A GATTAGTAATOTTGCTTTATGAAGGGTAGCATTGTATATTT	2760
2761	A A COUTA CITCHTOON A GCGA A GGTCTATGCTGTTGAGCTACAGGACTGTGTCTGTTCC	2820
2021	ACACCACCACTTCCCATCCTTCTCTATGTCCTTCAGGACTTCTTGGATTTTGCAATTTTGT	2880
2991	CA A A COTTTCCA TTC A CCTGATGTGGAGCTCAGAAATCCTGAAACCAGTGGCTCTGGTAC	2940
2941	TCAGTAGTTAGGGTACCCTGTGCTTCTTGGTGCTTTTCCTTTCTGGAAAATAAGGATTTT	3000
3001	TCTGCTACTGGTAAATATTTTCTGTTTGTGAGAAATATATTAAAGTGTTTCTTTTAAAGG	3000
3061	CGTGCATCATTGTAGTGTGTGCAGGGATGTATGCAGGCAAAACACTGTGTATATAAAA	3140
2121	TAAATCTTTTAAAAAGTGTAAAAAAAAAAA 3151	

Fig. 6 (cont.)

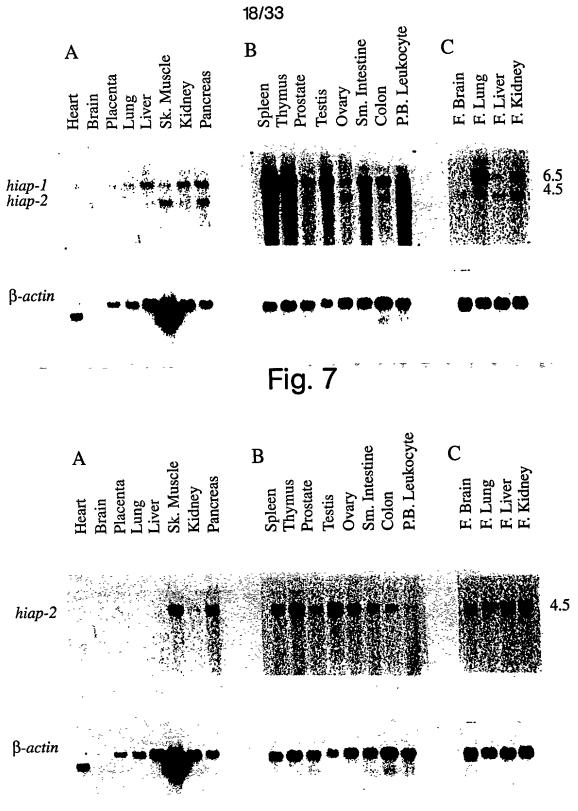


Fig. 8

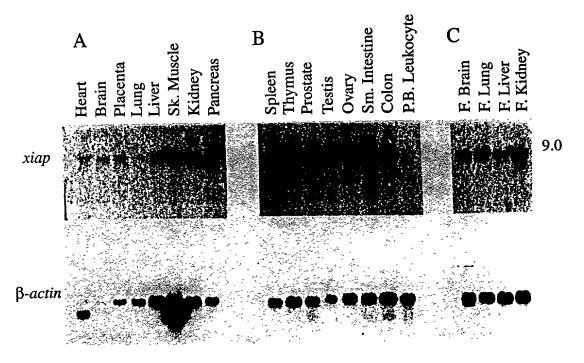
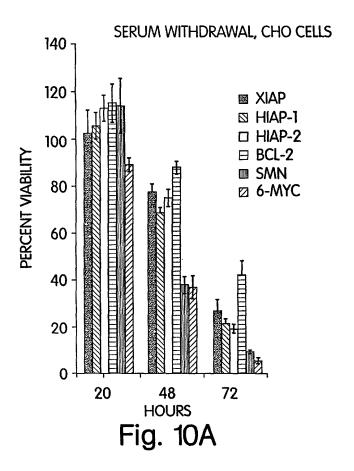


Fig. 9



MENADIONE (20 μ M), CHO CELLS. 24hr SURVIVAL

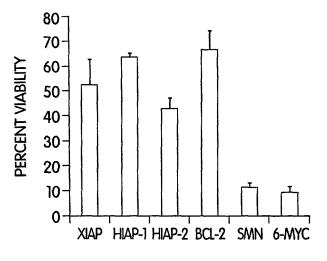


Fig. 10B

STAUROSPORINE (1μ M), RAT-1 CELLS, 24 HOUR SURVIVAL

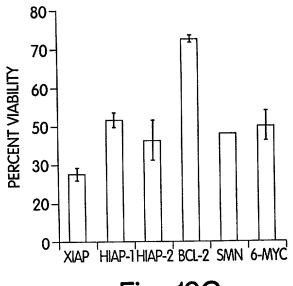


Fig. 10C

MENADIONE (10 μ M), RAT-1 CELLS, 18 HOUR SURVIVAL

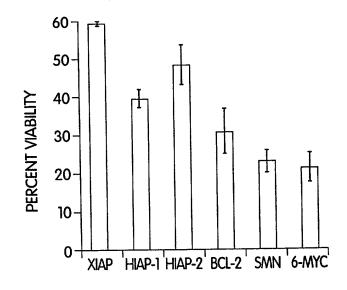


Fig. 10D

Burkitt's

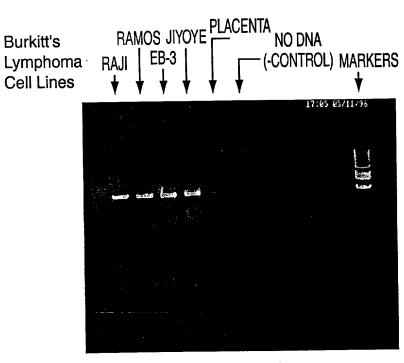


Fig. 11

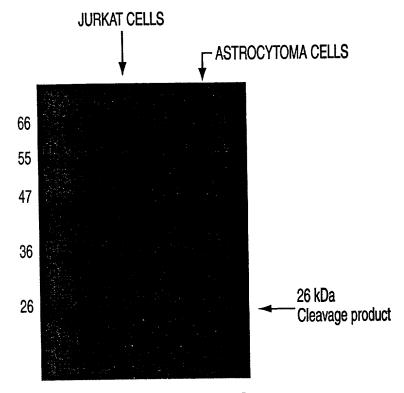
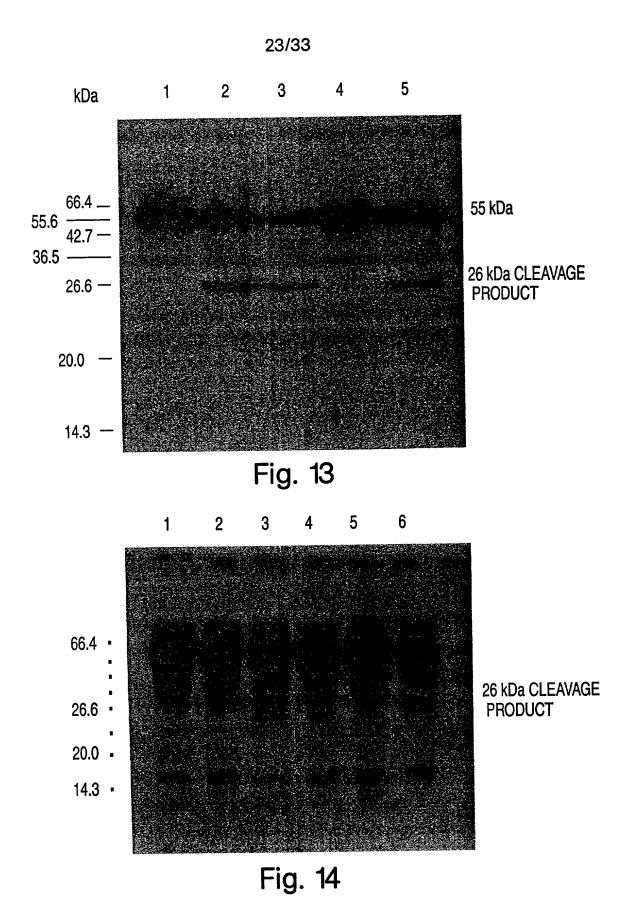
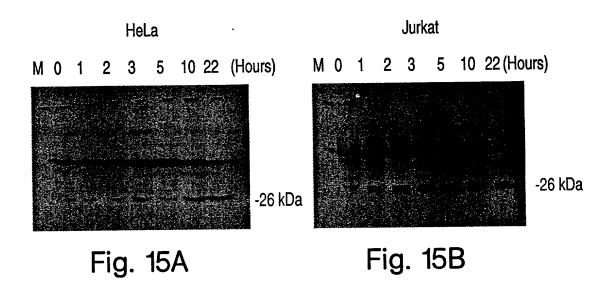
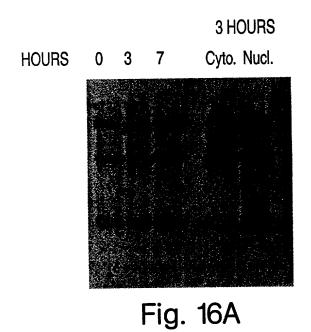


Fig. 12







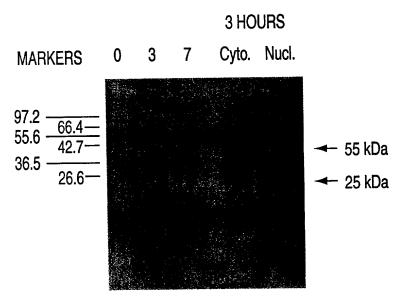


Fig. 16B

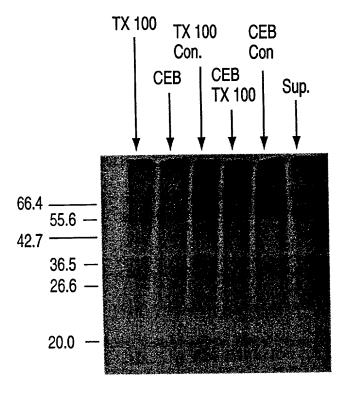
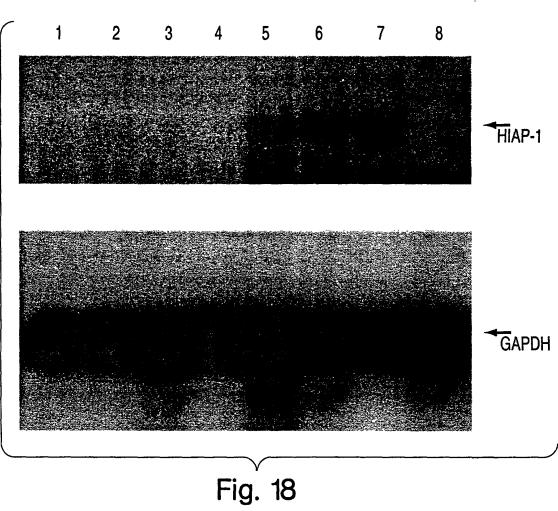
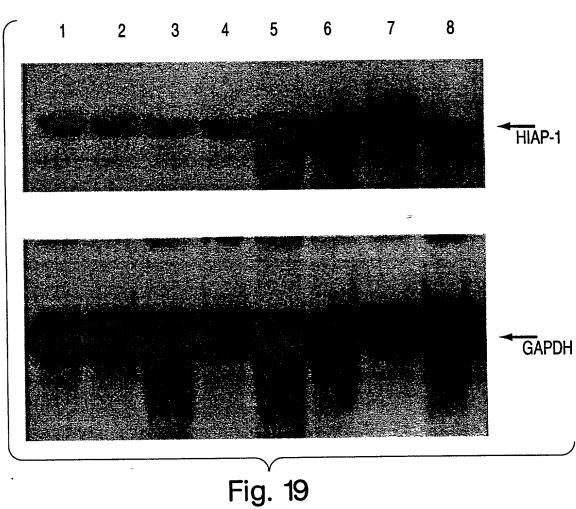


Fig. 17





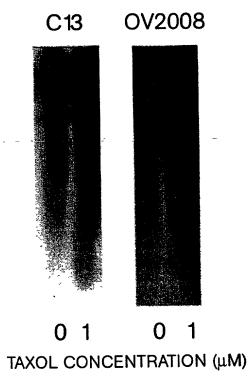
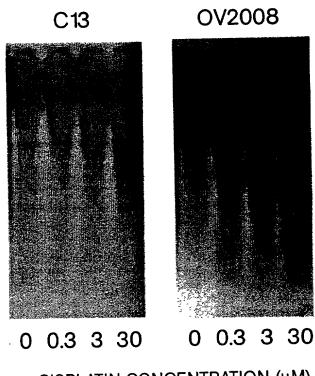
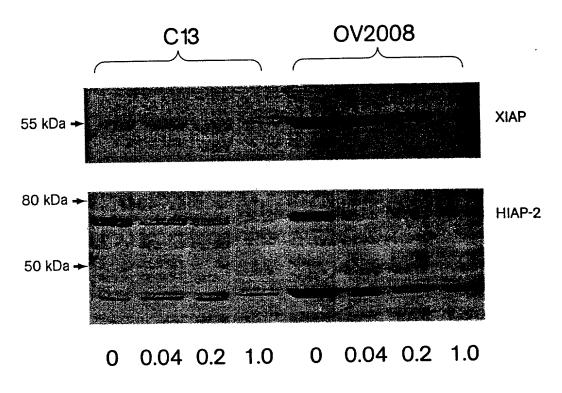


Fig. 20



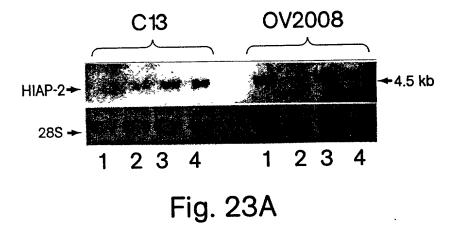
CISPLATIN CONCENTRATION (μM)

Fig. 21



TAXOL CONCENTRATION (μM)

Fig. 22



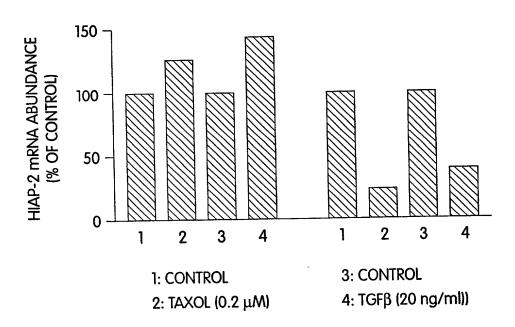


Fig. 23B

